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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION	
10/808,184	03/24/2004	Raghavan Rajagopalan	1486.1:H US (073979.68)	4580
27805 THOMPSON	7590 08/17/201 HINE L.L.P.	0	EXAM	INER
Intellectual Property Group			PACKARD, BENJAMIN J	
P.O. BOX 880 DAYTON, OF			ART UNIT	PAPER NUMBER
			1612	
			MAIL DATE	DELIVERY MODE
			08/17/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

6) Claim(s) 11,12 and 21-27 is/are rejected. 7) Claim(s) _____ is/are objected to.

a) All b) Some * c) None of:

Application No.	Applicant(s)	Applicant(s)			
10/808,184	RAJAGOPALAN ET AL.	RAJAGOPALAN ET AL.			
Examiner	Art Unit				
Benjamin Packard	1612				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

	Any reply received by the Critice later than three months after the mailing date of this communication, even if timely nied, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status					
1)🛛	Responsive to communication(s) filed on 23 June 2010.				
2a)⊠	This action is FINAL . 2b) This action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				
4)⊠	Claim(s) 11-27 is/are pending in the application.				
	4a) Of the above claim(s) 13-20 is/are withdrawn from consideration.				
51	Claim(s) is/are allowed				

8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers

9) The specification is objected to by the Examiner.						
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85					

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

1.∟	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.	Copies of the certified copies of the priority documents have been received in this National Stage
	application from the International Bureau (PCT Rule 17.2(a))

* See the attached detailed Office action for a list of the certified copies not received.

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Attachment(s)		
Notice of References Cited (PTO-892)	Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/S5/08)	5) Notice of Informal Patent Application	
Paper No(s)/Mail Date	6) Other:	

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DETAILED ACTION

Applicants' arguments, filed 06/23/10, have been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of Application/Control Number: 10/808,184

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Claims 11-12 and 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cuttita et al (US 5,460,801) in view of Pandurangi et al (J. Org. Chem. 1998, 63, 9019-9030).

Cuttita et al discloses conjugating monoclonal antibodies with bombesin and to administer the compounds to treat small cell lung cancer in humans (col 2 lines 41-59). Bombesin is disclosed to be the most frequently produced peptide hormone associated with small cell lung cancer (col 1 lines 44-52).

Cuttitta et al does not disclose conjugating the bombesin with an aryl azide.

Pandurangi et al teaches the photoactivation of aryl azide compounds to produce singlet nitrenes for phototherapeutic uses (pg 9019 abstract and pg 9024 Discussion) where the wavelength to excite the compounds at 450 nm (pg 9024 Discussion and figs 4 and 5).

Pagndurangi et al does not disclose attaching a bombesin receptor binding molecule and does not disclose actual in vivo treatment.

It would have been obvious to one of ordinary skill in the art to incorporate the active portion of the compounds in the secondary reference in place of the monoclonal antibodies of the primary reference, given the resulting conjugate would produce a receptor specific localization and provide therapeutic effect when the conjugate is photo activated to produce nitrenes as taught by the secondary reference. Further, where the purpose of the conjugate made obvious by the prior art is to provide a phototherapeutic

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effect at the bombesin receptor by activation aryl azides, it would be obvious to optimize the dosage to provide the optimal amount of conjugate at the receptor site such that the desired therapeutic effect occurs without excess in the system.

Conclusion

No claims allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Packard whose telephone number is 571-270-3440. The examiner can normally be reached on M-R 8-6 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frederick Krass can be reached on 571-272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Benjamin Packard/ Examiner, Art Unit 1612

/Frederick Krass/ Supervisory Patent Examiner, Art Unit 1612